



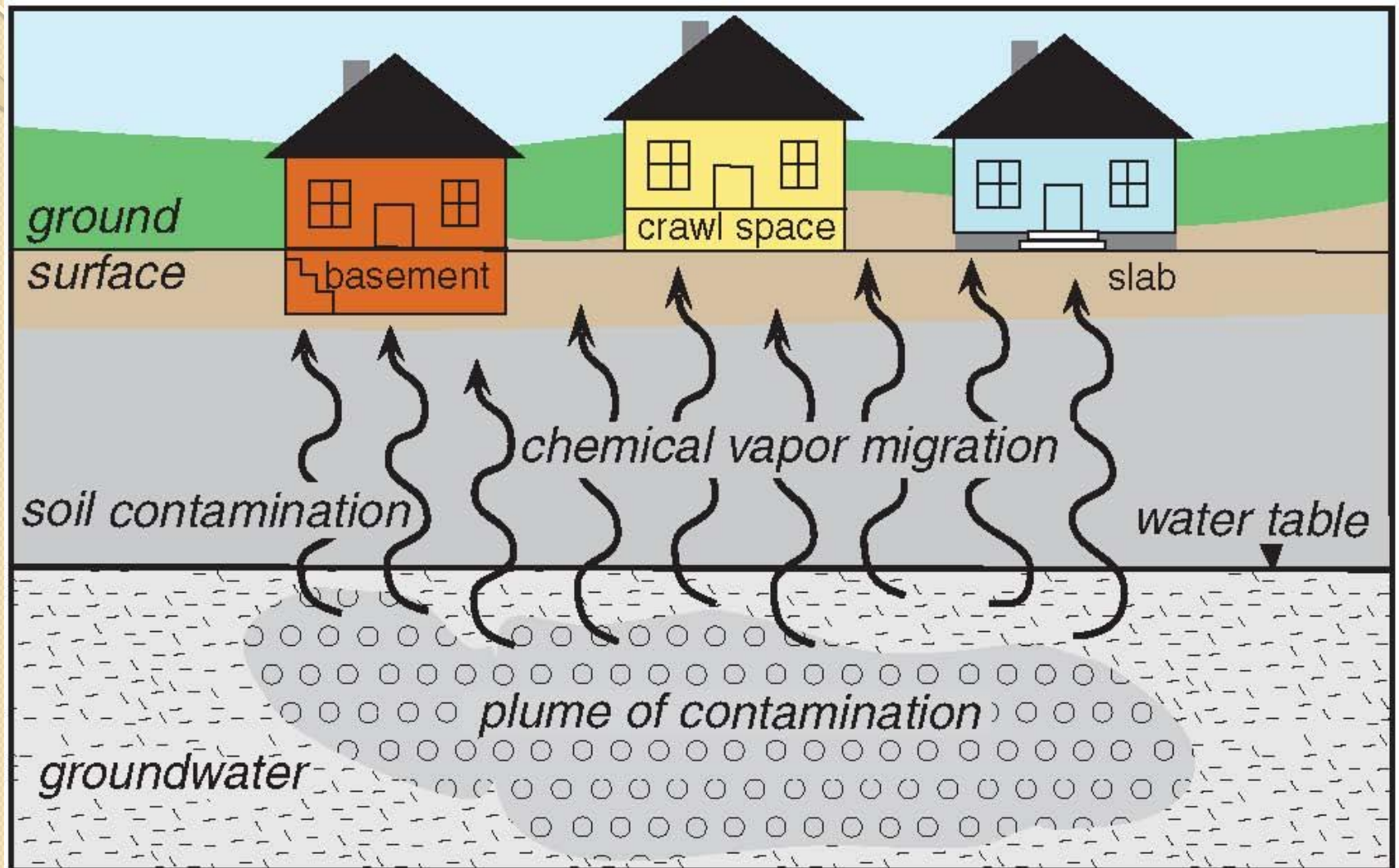
Investigation and Findings Motorola 52nd Street Superfund Site

February 2012

Mathew Plate (for Janet Rosati)
US EPA

Ms. Rosati (415) 972-3165 (rosati.janet@epa.gov)

Vapor Intrusion Pathway



TCE

Color Designation Based on Maximum Detection for Each Location Posted

- TCE Not Detected
- TCE Detected Below Residential SQHSL
- TCE Detected at or Above Residential SQHSL

- Site ID
- Sample Location
- 51 TCE Concentration (ug/m³) at 5 feet below ground surface
- 110 TCE Concentration (ug/m³) at 15 feet below ground surface

Notes:

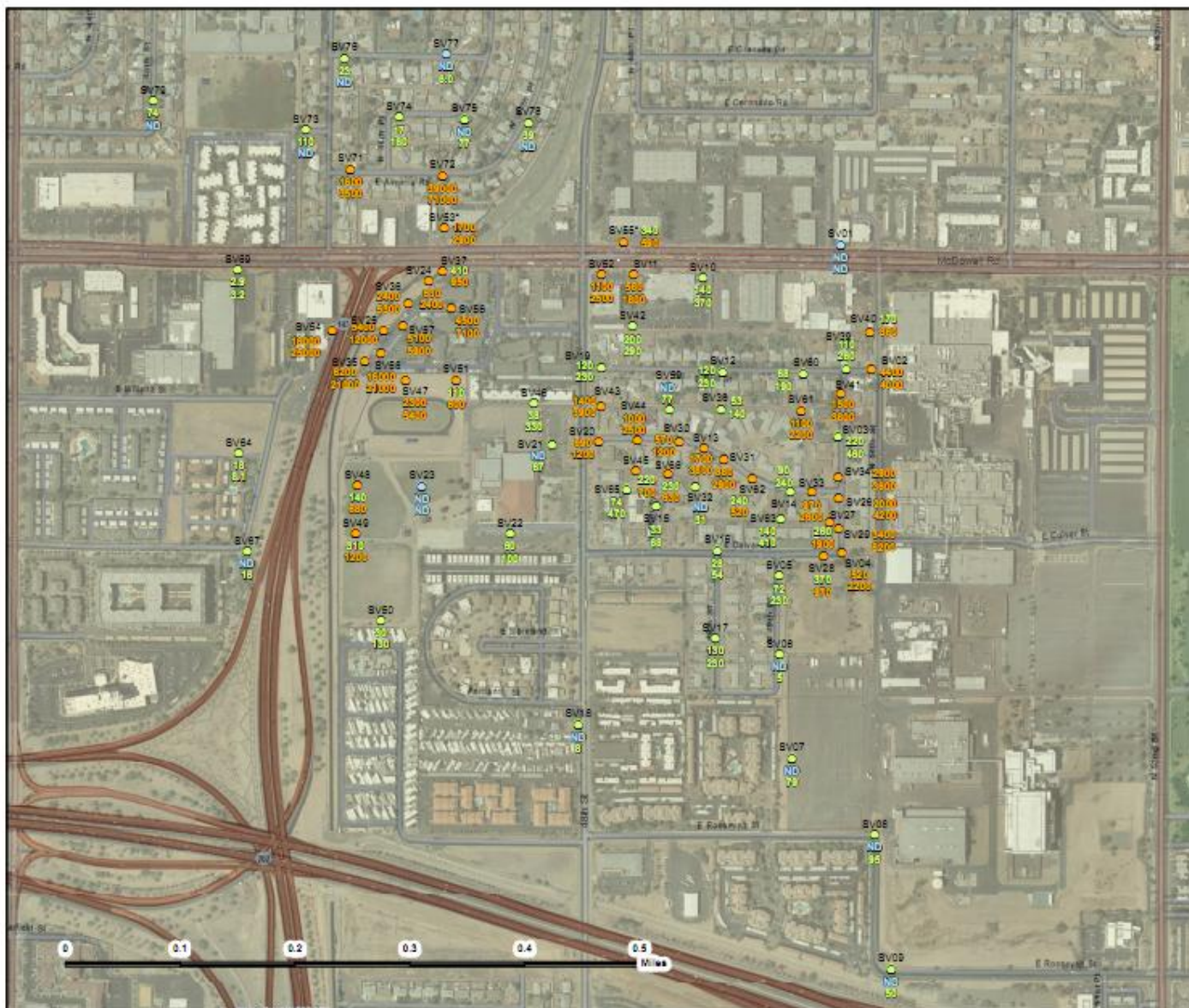
- 1) Sample location symbol color is determined by highest analytical result reported in sample from either 5 feet or 15 feet below ground surface
- 2) Some proposed locations were not needed for sampling
- 3) Validated results shown with numeric value and color coded number
- 4) TCE = Trichloroethene
- 5) ND = Not Detected
- 6) ug/m³ = micrograms per cubic meter
- 7) SQHSL = Soil Gas Human Health Screening Level
- 8) TCE SQHSL = 520 ug/m³
- 9) * exceeds residential SQHSL but below commercial SQHSL



**CLEAR
CREEK
ASSOCIATES**

Figure 2

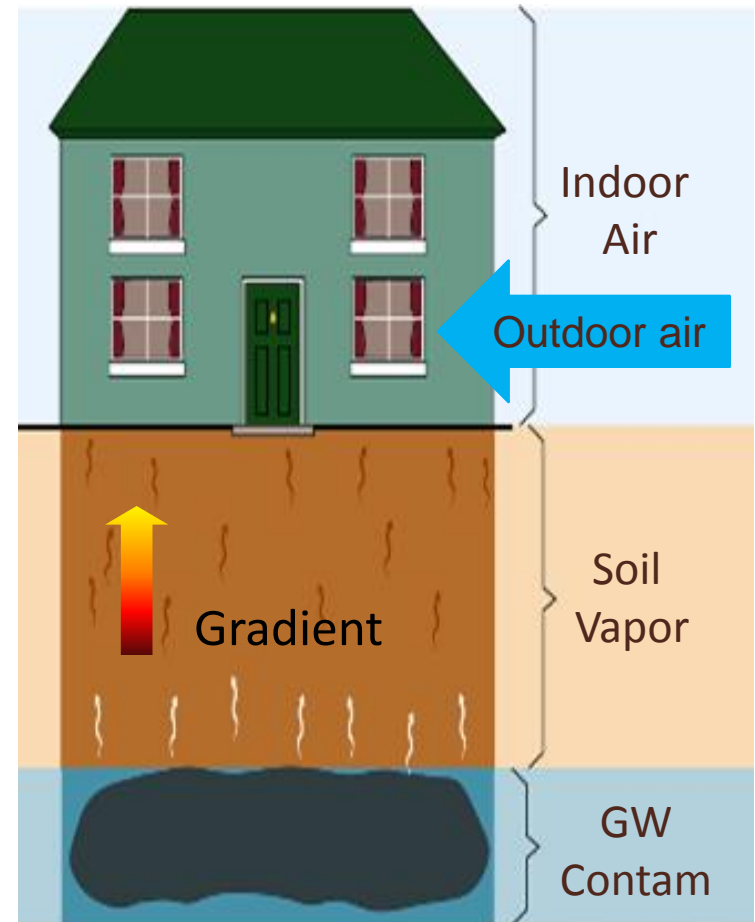
OU1 TCE Soil Vapor Results (ug/m³)
5 Feet and 15 Feet
Below Ground Surface
April through August 2011



Soil Gas and Indoor Air

- Vapor intrusion = soil gas entering overlying buildings
- Questions to address:
 - Is vapor intrusion happening?
 - If so, are indoor air exposures of potential health concern?
 - Does weather impact the results

We will collect samples in both summer and winter









Summary of Indoor air Sampling Program

- Sampled 39 residences, 5 commercial buildings and two schools representing areas where soil vapor exceeded screening levels
- Trichloroethylene (TCE) primary site related chemical found above the screening level
- Based on indoor air and sub-slab data 6 buildings will be pre-emptively mitigated with sub-slab depressurization systems

Example Sub-Slab Depressurization System

- Provides a difference in pressure between indoor air and sub-slab gas that prevents vapors from entering the home

